

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-21. (Canceled)

22. (Original) A barrier coated polymer sheet for use in a liquid crystal display, said barrier coated polymer sheet comprising:

- a) a polycarbonate substrate, said polycarbonate substrate having a roughness of up to about 5 nm; and
- b) a barrier coating disposed on a surface of said polycarbonate substrate, said barrier coating having a density of at least 1.8 g/cm^3 .

23. (Original) The barrier coated polymer sheet of Claim 22, wherein said barrier coating is deposited by plasma enhanced chemical vapor deposition.

24. (Original) The barrier coated polymer sheet of Claim 22, wherein said barrier coating comprises at least one compound selected from the group consisting of silicon nitride, silicon oxide, aluminum oxide, and combinations thereof.

25. (Original) The barrier coated polymer sheet of Claim 24, wherein said barrier coating comprises silicon nitride.

26. (Original) The barrier coated polymer sheet of Claim 24, wherein said barrier coating comprises silicon oxide.

27. (Original) The barrier coated polymer sheet of Claim 24, wherein said barrier coating has a thickness of between about 10 nm and about 1000 nm.

28-59. (Canceled)

60. (New) The barrier coated polymer sheet of Claim 22, wherein said barrier coating has an oxygen permeation rate of no greater than about $0.1 \text{ cm}^3/\text{m}^2\text{-day}$.

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61. (New) The barrier coated polymer sheet of Claim 22, wherein said barrier coating has a water vapor transmission rate of no greater than about $1.0 \text{ g/m}^2\text{-day}$.